#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re P	Patent Application of	)	
Von S	chaewen, Antje	)	Group Art Unit: Unassigned
Applic	ation No.: Unassigned (continuation of 09/591,466)	)	Examiner: Unassigned
		)	Confirmation No.: Unassigned
Filed:	Herewith	)	_
		)	
For:	Plant GntI sequences and the use thereof	)	
	for the production of plants having	)	
	reduced or lacking N-acetyl glucosaminyl	)	
	transferase I(GnTI) activity		

#### **INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, Applicant hereby submits the following information in conformance with 37 C.F.R. §§ 1.97 and 1.98. Pursuant to 37 C.F.R. § 1.98(d), copies of the following cited references are not included, as they were either cited or submitted in U.S. Patent Application Serial No. 09/591,466, filed June 9, 2000, to which this application claims priority under 35 U.S.C. § 120.

- 1. International Publication No. WO 92/09694.
- 2. International Publication No. WO 96/21038.
- 3. Chemical Abstracts 119: 245692f
- 4. Chemical Abstracts 120: 294245s
- 5. EML-Genbank AC B24856
- 6. EML-Genbank AC AC000098
- 7. Altmann, F., et al. "Processing of asparagine-linked oligosaccharides in insect cells. N-acetylglucosaminyl transferase I and II activities in cultured lepidopteran cells." Glycobiology 3: 619-625 (1993)

- 8. Barton, N.W., et al. "Therapeutic response to intravenous infusions of glucocerebrosidase in a patient with Gaucher disease." *Proc Natl Acad Sci USA*. 87: 1913-1916 (1990).
- 9. Bevan, M. "Binary Agrobacterium vectors for plant transformation." Nucl. Acids Res. 12: 8711-8721 (1984).
- 10. Church, G.M., et al. "Genomic sequencing." *Proc Acad Sci USA* 81: 1991-1995 (1984).
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- 13. Dennis, J.W., et al. " $\beta \rightarrow 6$  branching of Asn-linked oligosaccharides is directly associated with metastasis." *Science* 236: 582-585 (1987).
- 14. Faske, M, et al. "Transgenic tobacco plants expressing pea chloroplast *Nmdh* cDNA in sense and antisense orientation: Effects on NADP-MDH level, stability of transformants, and plant growth." *Plant Physiol.* 115: 705-715 (1997).
- 15. Faye, L., et al. "Apparent inhibition of βfructosidase secretion by tunicamycin may be explained by breakdown of the unglycosylated protein during secretion." *Plant Physiol* 89: 845-851 (1989).
- 16. Fukuda, M.N. "HEMPAS disease: genetic defect of glycosylation." *Glycobiology* 1: 9-15 (1990).
- 17. Fukuda, M.N., et al. "Incomplete synthesis of N-glycans in congenital dyserythropoetic anemia type II caused by a defect in the gene encoding α-mannosidase II." *Proc Natl Acad Sci USA* 87: 7443-7447 (1990)
- 18. Gomez, L, et al. "Complementation of an *Arabidopsis thaliana* mutant that lacks complex asparagine-linked glycans with the human cDNA encoding acetylglucosaminyltransferase I." *Proc. Natl. Acad. Sci. USA*. 91: 1829-1833 (1994).
- 19. Graeve, K., et al. "Purification, characterization and cDNA sequence of glucose-6-phosphate dehydrogenase from potato (*Solanum tuberosum* L.)." *Plant J.*5: 353-361 (1994).
- 20. Harlow, E., et al. <u>Antibodies: A Laboratory Manual</u>, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY (1988).
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- Höfgen, R., et al. "Storage of competent cells for Agrobacterium transformation." Nucl Acids Res. 16: 9877 (1988).
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- 24. Johnson, K.D., et al. "Substrate specificities of N-acetylglucosaminyl-, fucosyl-, and xylosyltransferases that modify glycoproteins in the Golgi apparatus of bean cotyledons." *Plant Physiol.* 84: 1301-1308 (1987).
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- 28. Kumar, R., et al. "Cloning and expression of N –acetylglucosaminyltransferase I, the medial Go1gi transferase that initiates complex N-linked carbohydrate formation." *Proc Nat1 Acad Sci USA* 87: 9948-9952 (1990).
- 29. Laurière, M., et al. "Characterization of a xylose-specific antiserum that reacts with the complex asparagine-linked glycans of extracellular and vacuolar glycoproteins." *Plant Physiol.* 90: 1182-1188 (1989).
- 30. Ma, JK-C, et al. "Plant antibodies for immunotherapy." *Plant Physiol.* 109: 341-346 (1995)
- 31. McKinney, E.C., et al. "Sequence-based identification of T-DNA insertion mutations in *Arabidopsis*: actin mutants *act2-1* and *act4-1*." *Plant J.* 8: 613-622 (1995).
- 32. Moffat, AS . "Medical applications: Exploring transgenic plants as a new vaccine source." *Science* 268: 658-660 (1995) (summary of two original publications in the same issue)
- 33. Olden, K., et al. "Function of glycoprotein glycans." *Trends Biochem* Sci 10: 78-82 (1985)
- 34. Puchta, H., et al. "From centiMorgans to base pairs: homologous recombination in plants." *Plant Sci.* 1: 340-348 (1996).

- 35. Rademacher, T.W., et al. "Glycobiology." Annu Rev Biochem 57: 785-838 (1988).
- 36. Rocha-Sosa, M., et al. "Both developmental and metabolic signals activate the promoter of a class I patatin gene." *EMBO J.* 8: 23-29 (1989).
- 37. Sambrook, J., et al. <u>Molecular cloning: a laboratory manual</u> (2nd edn), Cold Spring Harbor Laboratory, Cold Spring Harbor, NY (1989).
- 38. Schmidt, T.G.M., et al. "The random peptide library assisted engineering of a C-terminal affinity peptide, useful for the detection and purification. of a functional Ig Fv fragment." *Prot Engineering*. 6: 109-122 (1993).
- 39. Sorge, J., et al. "Molecular cloning and nucleotide sequence of human cerebrosidase cDNA." *Proc Natl Acad Sci USA*. 82: 7289-7293 (1985).
- 40. Stanley, P. "Chinese hamster ovary cell mutants with multiple glycosylation defects for production of glycoproteins with minimal carbohydrate heterogeneity." *Mol Cell Biol* 9:377-383 (1989).
- 41. Sturm, A., et al. "Subcellular localization of glycosidases and glycosyltransferases involved in the processing of N-linked oligosaccharides." *Plant Physiol.* 85: 741-745 (1987).
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- 43. Taylor, CB. "Comprehending cosuppression." *Plant Cell* 9: 1245-1249 (1997) (summary of several original publications in the same issue)
- 44. Van der Wilden, M., et al. "The endoplasmic reticulum of mung bean cotyledons: role in the accumulation of hydrolases in protein bodies during seedling growth." *Plant Physiol*. 66: 390-394 (1980).
- 45. Voelker, T., et al. "Differences in expression between two seed lectin alleles obtained from normal and lectin-deficient beans are maintained in transgenic tobacco." *EMBO J.* 6: 3571-3577 (1987).
- 46. Von Schaewen, A., et al. "Expression of a yeast-derived invertase in the cell wall of tobacco and *Arabidopsis* plants leads to accumulation of carbohydrate, inhibition of photosynthesis and strongly influences growth and phenotype of transgenic tobacco plants." *EMBO J.*. 9: 3033-3044 (1990).
- 47. Von Schaewen, A., et al. "Isolation of a mutant *Arabidopsis* plant that lacks N-acetyl glucosaminyl transferase I and is unable to synthesize Go1gi-modified complex N-linked glycans." *Plant Physiol.* 102: 1109-1118 (1993).

The documents are being submitted within 3 months of the filing or entry of the national stage of this application or before the first Office Action on the merits, whichever is later, therefore no fee or certification is required under 37 C.F.R. § 1.97(b).

By citing the above references, Applicants do not acquiesce or admit that any of these documents is "prior art" under 35 U.S.C. Applicants specifically reserve the right, where appropriate, to antedate any of the cited documents by an appropriate showing under 37 C.F.R. §1.131, §1.604, §1.608 or any other suitable means.

To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

By:

Ping F. Hwung Registration No. 44,164

P.O. Box 1404 Alexandria, Virginia 22313-1404 (650) 622-2300

Date: July 8, 2003

SHEET 1 OF 3

INFO	DRMATION [	DISCLOS	SURE	ATTORNEY'S DKT N 032266-004	10.	APPLICATION	No.	
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APPLICANT Von Schaewen, Antje	
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PTO-1449

	Deblaere, R., et al. "Efficient octopine Ti plasmid-derived vectors for Agrobacterium mediated gene transfer to plants." Nucl Acids Res. 13: 4777-4788 (1985).
	Dennis, J.W., et al. "β→6 branching of Asn-linked oligosaccharides is directly associated with metastasis." Science 236: 582-585 (1987).
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	Gomez, L, et al. "Complementation of an <i>Arabidopsis thaliana</i> mutant that lacks complex asparagine-linked glycans with the human cDNA encoding –acetylglucosaminyltransferase I." <i>Proc. Natl. Acad. Sci. USA</i> . 91: 1829-1833 (1994).
	Graeve, K., et al. "Purification, characterization and cDNA sequence of glucose-6-phosphate dehydrogenase from potato (Solanum tuberosum L.)." Plant J. 5: 353-361 (1994).
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